

4 a bus connector adapted to couple the wireless communication circuitry to an expansion
5 bus when the shell is attached to an outer surface of an electronic device having said expansion
6 bus;

7 an RF antenna for communication with a wireless network; and

8 a radio modem comprising a bus interface, a baseband controller, and a radio transceiver
9 that combine to modulate data onto a radio frequency carrier signal,

10 wherein the RF antenna forms a part of a company logo or identifying mark located on the shell of
11 the wireless network adapter.

1 9. A wireless network adapter, comprising:

2 wireless communication circuitry encased in a shell, said shell being a detachable molding
3 element of an electronic device;

4 a bus connector adapted to couple the wireless communication circuitry to an expansion
5 bus when the shell is attached to an outer surface of an electronic device having said expansion
6 bus;

7 an RF antenna for communication with a wireless network; and

8 a radio modem comprising a bus interface, a baseband controller, and a radio transceiver
9 that combine to modulate data onto a radio frequency carrier signal,

10 wherein the RF antenna incorporates diversity antenna technology.

12. A computer system, comprising:

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Filed: September 29, 2000

2 a system microprocessor;
3 an expansion bus coupled to the microprocessor and configured to transport data to and
4 from at least one input/output device;
5 an input/output device operatively coupled to said microprocessor; and
6 an expansion port connected to the expansion bus, wherein the port is configured to accept
7 a detachable molding element, and wherein the expansion port comprises a recess configured to
8 accept a circuit card assembly comprising:
9 wireless communication circuitry;
10 a bus connector adapted to couple the wireless communication circuitry to the
11 expansion bus when the circuit card assembly is attached to the expansion port of the
12 computer system;
13 an RF antenna for communication with a wireless network; and
14 a radio modem comprising a circuitry for conversion between digital and
15 modulated analog signals,
16 wherein when the detachable molding element is installed, the molding element encases the circuit
17 card assembly and covers the recess in the computer system.

1 13. A computer system, comprising:

2 a system microprocessor;
3 an expansion bus coupled to the microprocessor and configured to transport data to and
4 from at least one input/output device;

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5 an input/output device operatively coupled to said microprocessor; and
6 an expansion port connected to the expansion bus, wherein the port is configured to accept
7 a detachable molding element, and wherein the detachable molding element houses an expansion
8 device.

1 16. A computer system, comprising:
2 a system microprocessor;
3 an expansion bus coupled to the microprocessor and configured to transport data to and
4 from at least one input/output device;
5 an input/output device operatively coupled to said microprocessor; and
6 an expansion port connected to the expansion bus, wherein the port is configured to accept
7 a detachable molding element, wherein the detachable molding element houses a wireless network
8 adapter comprising:
9 wireless communication circuitry;
10 a bus connector adapted to couple the wireless communication circuitry to the
11 expansion bus when the molding element is attached to the expansion port of the
12 computer system;
13 an RF antenna for communication with a wireless network; and
14 a radio modem comprising a circuitry for conversion between digital and
15 modulated analog signals,

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16 wherein the RF antenna of the wireless network adapter forms a part of a company logo located on
17 the shell of the molding element.

1 17. A computer system, comprising:

2 a system microprocessor;

3 an expansion bus coupled to the microprocessor and configured to transport data to and

4 from at least one input/output device;

5 an input/output device operatively coupled to said microprocessor; and

6 an expansion port connected to the expansion bus, wherein the port is configured to accept

7 a detachable molding element, wherein the detachable molding element houses a wireless network

8 adapter comprising:

9 wireless communication circuitry;

10 a bus connector adapted to couple the wireless communication circuitry to the

11 expansion bus when the molding element is attached to the expansion port of the

12 computer system;

13 an RF antenna for communication with a wireless network; and

14 a radio modem comprising a circuitry for conversion between digital and

15 modulated analog signals,

16 wherein the exterior case of the computer system functions as the RF antenna of the wireless

17 network adapter.

- 1 20. A computer system, comprising:
2 a system microprocessor;
3 an expansion bus coupled to the microprocessor;
4 an input/output device operatively coupled to said microprocessor; and
5 an expansion port connected to the expansion bus configured to accept a wireless network
6 adapter, said wireless network adapter comprising:
7 wireless communication circuitry;
8 a bus connector adapted to couple the wireless communication circuitry to the
9 expansion bus when the molding element is attached to the expansion port of the
10 computer system;
11 an RF antenna for communication with a wireless network; and
12 a radio modem comprising a circuitry for conversion between digital and
13 modulated analog signals.
14 wherein the expansion port is attached to the exterior case of the computer system, and
15 wherein the RF antenna of the wireless network adapter forms a part of a company logo located on
16 the exterior surface of the wireless network adapter.

- 1 21. A computer system, comprising:
2 a system microprocessor;
3 an expansion bus coupled to the microprocessor;
4 an input/output device operatively coupled to said microprocessor; and

5 an expansion port connected to the expansion bus configured to accept a wireless network
6 adapter, said wireless network adapter comprising:
7 wireless communication circuitry;
8 a bus connector adapted to couple the wireless communication circuitry to the
9 expansion bus when the molding element is attached to the expansion port of the
10 computer system;
11 an RF antenna for communication with a wireless network; and
12 a radio modem comprising a circuitry for conversion between digital and
13 modulated analog signals.
14 wherein the expansion port is attached to the exterior case of the computer system, and
15 wherein the RF antenna of the wireless network adapter forms a part of a company logo located on
16 the expansion port of the computer system.

1 22. A computer system, comprising:
2 a system microprocessor;
3 an expansion bus coupled to the microprocessor;
4 an input/output device operatively coupled to said microprocessor; and
5 an expansion port connected to the expansion bus configured to accept a wireless network
6 adapter, said wireless network adapter comprising:
7 wireless communication circuitry;

8 a bus connector adapted to couple the wireless communication circuitry to the
9 expansion bus when the molding element is attached to the expansion port of the
10 computer system;

11 an RF antenna for communication with a wireless network; and

12 a radio modem comprising a circuitry for conversion between digital and
13 modulated analog signals.

14 wherein the expansion port is attached to the exterior case of the computer system, and

15 wherein the exterior case of the computer system functions as the RF antenna of the wireless
16 network adapter.

1 25. A laptop computer which comprises:

2 a clamshell case having a shroud and a lid, wherein the shroud has a keyboard which is
3 protected by the lid when the lid is in a closed position, wherein the lid has a
4 display which is protected by the lid when the lid is in the closed position;

5 an expansion port, wherein the expansion port is located proximate to an upper edge of the
6 lid when the lid is in the open position; and

7 a multifunctional module coupled to the expansion port, wherein one of the functions of the
8 multifunctional module is as a wireless link adapter,

9 wherein a second of the functions of the multifunctional module is decorative embellishment of the
10 lid.

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- 1 26. A laptop computer which comprises:
2 a clamshell case having a shroud and a lid, wherein the shroud has a keyboard which is
3 protected by the lid when the lid is in a closed position, wherein the lid has a
4 display which is protected by the lid when the lid is in the closed position;
5 an expansion port, wherein the expansion port is located proximate to an upper edge of the
6 lid when the lid is in the open position; and
7 a multifunctional module coupled to the expansion port, wherein one of the functions of the
8 multifunctional module is as a wireless link adapter,
9 wherein a second of the functions of the multifunctional module is as a latch release for the lid.

A marked up version of the amended claims, showing the changes by underlining of the added text and bracketing of the deleted text, is appended hereto.